

**Summary of WQAG discussion, August 9, 2000 on  
Antidegradation Framework Discussion Issues  
(8/22/00)**

**2.c. Antidegradation Framework discussion issues**

- A. How should existing water quality be determined (ambient background)? In other words, what should an ambient background determination protocol contain/require?

*Options:*

- 1. Use fixed station monitoring data, when available, near point source. IDEM gather data for sites not monitored, as required.*
- 2. Use fixed station monitoring data, when available. If not available, have permittee produce data showing ambient background for the parameter in question.. Develop guidelines for permittees to use.,*
- 3. Have permittee produce data showing ambient background for the parameter in question.. Develop guidelines for permittees to use.*
- 4. Make each review case specific.*

1. How much data is needed? How many analytical results are needed? Should the data be collected seasonally, annually, multi-annually?

*Options:*

- 1. 10-40 samples - typical for statistical information.*
- 2. Even one sample has value. Depends on nature of contaminant. Only one sample is needed for 303 listing*
- 3. No one protocol is going to work. Should be case specific. Need some type of template.*
- 5. Request that permittee generate one years worth of information. Permittee comes up with sampling and data information.*
- 6. IDEM will have some data – the source will provide additional data.*
- 7. In support of discharger doing evaluations, include biological evaluations.*

*Today we use whatever data is available – do not ask dischargers for additional data*

2. Should a differentiation between wet and dry weather stream conditions be considered?

*Options:*

- 1. Have permittees sample and supply data at low flows using concentration, only . NPDES permit program is low stream flow protection.*
- 2. Handle each case individually. Need to know chemical, source, variation, etc. before setting sampling protocol. Three samples may be OK for BOD, but for chronic metals, more may be needed.*
- 3. Use Q710 data, only.*

4. *Sample anytime that is a non-storm event. This data should be about the same as low flow data and will discount for non-point sources during a storm event – important for TMDLs*
3. Should ambient background data be collected using a grab or composite method type? Both?  
*Options:*
  1. *Composite sampling is preferable, but may not be cost effective.*
  2. *Grabs may be appropriate for certain parameters.*
4. What method should be used to average ambient background data? Arithmetic, geometric mean, percentile?  
*Options:*
  1. *Currently using 50 percentile for GL and geometric for everything else.*
  2. *Establish different averaging for different parameters – acute vs. chronic.*
  3. *Mass loading would be geometric, if used in lieu of parameter concentration.*
5. Who should be responsible for collecting this data? Permittees, OWM, others, all of the above?  
*Options:*
  1. *Ask dischargers to collect data.*
  2. *Use our fixed monitoring data.*
  3. *Combination of 1 and 2.*
6. Who would be responsible for analyzing the data? How would the data be analyzed?  
*IDEM will analyze data, not samples, based on protocol.*
7. Establishing QA/QC?  
*Options:*
  1. *Use good collection processes.*
  2. *Use Surface Water Monitoring QA/QC*

*Additional Points:*

*Don't ignore non-point-source, even though. NPDES permitting is driver to resolve immediate issues. Investigate EPA guidance for non-point source.*